

CENTER FOR SCIENTIFIC COMPUTING AND IMAGING

CENTER

The Center for Scientific Computing and Imaging (CSCI) was created in 1996 to make available a commercial version of the SCIRun Software System. This is an interactive, visually based, scientific, engineering, and medical programming environment that allows the interactive construction, manipulation, and visualization of scientific and engineering simulations.

TECHNOLOGY

SCIRun technology provides scientists and engineers with a new model for scientific computing. The model relies on modern computing technologies such as graphical user interfaces and 3D graphics to provide a visual programming and problem-solving environment to investigate complex problems. The increased flexibility attempts to provide a "computational workbench" for scientific computing where experiments are formed, new methods explored, and tedious coding kept to a minimum.

ACCOMPLISHMENTS

This past year, a new start-up software company was created from the CSCI's technology. The new company will reside in the University of Utah's Research Park. The Center has been approached by several interested in either licensing the SCIRun Software System and/or creating specific technology-oriented software packages based upon the SCIRun software. The Center also has been granted ownership of Integrated Paleontological System (IPS) software for further research, development, and commercialization. The Technical Alliance for Computational Stratigraphy (TACS), a consortium of nine petroleum companies, has been established to fund a three-year commercialization and development initiative.

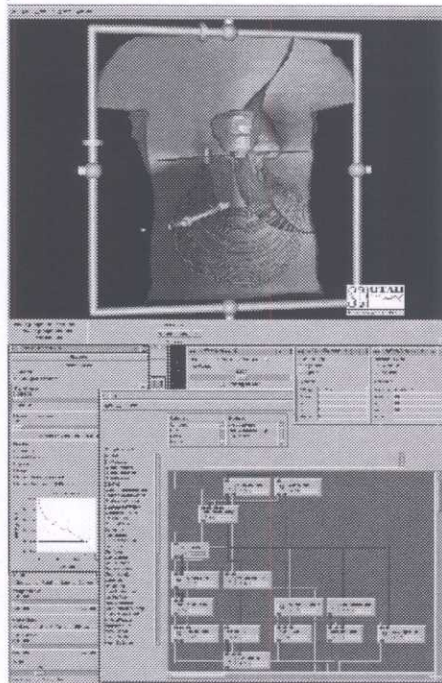
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Can You Imagine...

... software that can create detailed, three-dimensional images of human arterial systems from raw Magnetic Resonance Imaging (MRI) data and allow radiologists to rotate the images for complete diagnostic evaluation?

THE CENTER DEVELOPS SOPHISTICATED SOFTWARE THAT ALLOWS THE VISUALIZATION OF COMPLEX ENGINEERING AND SCIENTIFIC SIMULATIONS.



- Graphic shows an example SCIRun network, showing the dataflow programming interface, user interfaces for controlling simulation parameters, and results from a computer simulation of internal cardiac defibrillation.